

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
 Organization  
 International Bureau



(43) International Publication Date  
 29 April 2004 (29.04.2004)

PCT

(10) International Publication Number  
**WO 2004/035828 A2**

- (51) International Patent Classification<sup>7</sup>: **C12Q 1/68**
- (21) International Application Number: **PCT/IT2003/000627**
- (22) International Filing Date: 14 October 2003 (14.10.2003)
- (25) Filing Language: **Italian**
- (26) Publication Language: **English**
- (30) Priority Data:  
 RM2002A000525 15 October 2002 (15.10.2002) **IT**
- (71) Applicant (*for all designated States except US*):  
**SHARDNA S.P.A.** [IT/IT]; Viale Trento 39, I-09123  
 Cagliari (IT).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **PIRASTU, Mario**  
 [IT/IT]; C/O Shardna S.P.A., Piazza Deffenu, 4, I-09125  
 Cagliari (IT). **GIANFRANCESCO, Fernando** [IT/IT];  
 C/O Shardna S.P.A., Piazza Deffenu, 4, I-09125 Cagliari  
 (IT). **ESPOSITO, Teresa** [IT/IT]; C/O Shardna S.P.A., Pi-  
 azza Deffenu, 4, I-09125 Cagliari (IT). **OMBRA, Maria,**  
 Neve [IT/IT]; C/O Shardna S.P.A., Piazza Deffenu, 4,  
 I-09125 (IT).
- (74) Agents: **CAPASSO, Olga et al.; De Simone & Partners**  
 S.p.A., Via V. Bellini, 20, I-00198 Roma (IT).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
 AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
 CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,  
 GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,  
 KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,  
 MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,  
 RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,  
 TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM,  
 KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
 Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
 European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
 ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
 SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
 GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**  
 — *without international search report and to be republished  
 upon receipt of that report*
- For two-letter codes and other abbreviations, refer to the "Guid-  
 ance Notes on Codes and Abbreviations" appearing at the begin-  
 ning of each regular issue of the PCT Gazette.*

(54) Title: **DIAGNOSTIC AND THERAPEUTIC MEANS FOR KIDNEY STONE RELATED PATHOLOGIES**

(57) Abstract: A description is given of a nucleic acid comprising at least one fragment of the human gene ZNF365 or functional portions thereof for use in the diagnosis or treatment of pathologies associated with kidney stones. Appropriate diagnostic kits are also described.



**WO 2004/035828 A2**